

## 1/2 Water pump stirling engine

Using a Solar Stirling engine to generate movement and produce a water pump.



**scale model stirling engine** (Nestor Ferre; Mariana Blanco)

### Solution

The stirling engine needs a hot and a cold source to produce movement, using just air flow. The temperature difference causes changes in pressure to generate mechanical energy. If the stirling engine give concentrated solar radiation (solar concentrator) as a heat source and cold source at room temperature, we obtain mechanical energy which can be used to pump water.

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Creative's profile



**metalwhite**  
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